ATLAS Software Installation System Migration for USATLAS T1/T2 Sites

Xin Zhao, BNL

- Outline
  - Why Migrate
  - New Installation System
  - Migration Plan
  - Migration Status
  - Next Steps

Why Migrate?

- Unified Installation System ATLAS Wide
- Reduce communication layers
  - In PanDA terms, end user does pathena job payload submission, pilot submission and result verification all by himself

New Installation System

- Developed by Alessandro De Salvo

- Jobs are sent to Grid sites via CERN WMS
  - Condor-G based
  - BDII information used
    - > Make sure your site doesn't disappear from CERN BDII

- ATLAS software installation Web interface
  - https://atlas-install.roma1.infn.it/atlas_install/
  - Site admin can subscribe to it, to request and get notification of new installation attempts

Migration Plan

- Transparent to production system (PanDA)
  - Symlinks between the two file structures created by the two installation systems
    - $VO_ATLAS_SW_DIR ↔ $OSG_APP/atlas_app/atlas_rel
    - DQ2 client
      - $OSG_APP/atlas_app/atlaswn ↔ $VO_ATLAS_SW_DIR/ddm/latest
- Pilots can change to use the unified file structure later

Migration Status

- Tested at some other T3s (eg UTD)
- Migrated at BNL and OU T2
  - Works fine
  - BNL still needs to test PFC update
- Documentation not ready yet
  - Help understand and troubleshoot
    - >Installation Web interface
    - >CERN WMS system

Next Steps

- BNL
  - Change ToA sitenames in the squid server mapping, finish the PFC migration
    - >After reprocessing is done
- Migrate T2 sites
  - When?
  - Can start multiple sites in parallel